(19) World Intellectual Property Organization

International Bureau



. | 1980 | 1880 | 1880 | 1880 | 1880 | 1880 | 1880 | 1880 | 1880 | 1880 | 1880 | 1880 | 1880 | 1880 | 1880 | 1

(43) International Publication Date 18 August 2005 (18.08.2005)

PCT

(10) International Publication Number WO 2005/074511 A2

(51) International Patent Classification: Not classified

(21) International Application Number:

PCT/US2005/002379

- (22) International Filing Date: 25 January 2005 (25.01.2005)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/539,908

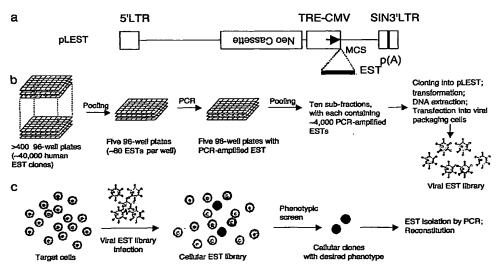
27 January 2004 (27.01.2004) US

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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHODS AND COMPOSITIONS FOR HOMOZYGOUS GENE INACTIVATION USING COLLECTIONS OF PRE-DEFINED NUCLEOTIDE SEQUENCES COMPLEMENTARY TO CHROMOSOMAL TRANSCRIPTS



(57) Abstract: Methods and compositions for performing homozygous gene inactivation assays are provided. A feature of the subject methods is the use of a library of constructs that synthesize predefined nucleic acids, where each constituent predefined nucleic acid of the library is of known sequence that corresponds to a sequence of a chromosomal transcript, e.g., where a representative embodiment of a predefined nucleic acid is an expressed sequence tag (i.e., EST). In certain embodiments, the subject libraries are produced using an amplification protocol that preserves the sequence representation profile of the template nucleic acids. The subject methods and compositions find use in a variety of different applications, including the identification of novel diagnostic and therapeutic genetic targets.

2005/07/511 A2 |||||

WO 2005/074511 A2



Published:

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